

Home Theatre System

Operating Instructions HT-FS3





















WARNING

Do not expose batteries or apparatus with batteryinstalled to excessive heat such as sunshine, fire or the like.

Do not install the appliance in a confined space, such as a bookcase or built-in cabinet.

To reduce the risk of fire, do not cover the ventilation opening of the apparatus with newspapers, tablecloths, curtains, etc. Do not place the naked flame sources such as lighted candles on the apparatus.

To reduce the risk of fire or electric shock, do not expose this apparatus to dripping or splashing, and do not place objects filled with liquids, such as vases, on the apparatus.

As the main plug is used to disconnect the unit from the mains, connect the unit to an easily accessible AC outlet. Should you notice an abnormality in the unit, disconnect the main plug from the AC outlet immediately.



Disposal of Old Electrical & Electronic Equipment (Applicable in the European Union and other European countries with separate collection systems)

This symbol on the product or on its packaging indicates that

this product shall not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact your local Civic Office, your household waste disposal service or the shop where you purchased the product.



Disposal of waste batteries (applicable in the European Union and other European countries with separate collection systems)

This symbol on the battery or on the packaging indicates that the battery provided with this product shall not be treated as household waste. On certain batteries this symbol might be used in combination with a chemical symbol. The chemical symbols for mercury (Hg) or lead (Pb) are added if the battery contains more than 0.0005% mercury or 0.004% lead. By ensuring these batteries are disposed of correctly, you will help prevent potentially negative consequences for the environment and human health which could otherwise be caused by inappropriate waste handling of the battery. The recycling of the materials will help to conserve natural resources. In case of products that for safety. performance or data integrity reasons require a permanent connection with an incorporated battery, this battery should be replaced by qualified service staff only. To ensure that the battery will be treated properly, hand over the product at end-of-life to the applicable collection point for the recycling of electrical and electronic equipment. For all other batteries, please view the section on how to remove the battery from the product safely. Hand the battery over to the applicable collection point for the recycling of waste batteries. For more detailed information about recycling of this product or battery, please contact your local Civic Office, your household waste disposal service or the shop where you purchased the product.

Notice for customers: the following information is only applicable to equipment sold in countries applying EU directives.

The manufacturer of this product is Sony Corporation, 1-7-1 Konan Minato-ku, Tokyo, 108-0075 Japan. The Authorized Representative for EMC and product safety is Sony Deutschland GmbH, Hedelfinger Strasse 61, 70327 Stuttgart, Germany. For any service or guarantee matters, please refer to the addresses given in separate service or guarantee documents.

Precautions

On safety

- Should any solid object or liquid fall into the system, unplug the system and have it checked by qualified personnel before operating it any further.
- Do not climb on the subwoofer, as you may fall down and injure yourself, or system damage may result.

On power sources

- Before operating the system, check that the operating voltage is identical to your local power supply. The operating voltage is indicated on the nameplate at the rear of the subwoofer.
- If you are not going to use the system for a long time, be sure to disconnect the system from the wall outlet (mains). To disconnect the AC power cord (mains lead), grasp the plug itself; never pull the cord.
- AC power cord (mains lead) must be changed only at the qualified service shop.
- The unit is not disconnected from the mains as long as it is connected to the AC outlet, even if the unit itself has been turned off.

On heat buildup

Although the system heats up during operation, this is not a malfunction. If you continuously use this system at a large volume, the system temperature of the back and bottom rises considerably. To avoid burning yourself, do not touch the system.

On placement

- Place the system in a location with adequate ventilation to prevent heat buildup and prolong the life of the system.
- Do not place the system near heat sources, or in a place subject to direct sunlight, excessive dust, or mechanical shock.
- Do not place anything at the rear of the subwoofer that might block the ventilation holes and cause malfunctions.
- Do not cover the grill of the subwoofer.
- Do not place the system near equipment such as a TV, VCR, or tape deck. (If the system is being used in combination with a TV, VCR, or tape deck, and is placed too close to that equipment, noise may result, and picture quality may suffer. This is especially likely when using an indoor antenna. Therefore, we recommend using an outdoor antenna.)
- Use caution when placing the system on surfaces that have been specially treated (with wax, oil, polish, etc.) as staining or discoloration of the surface may result.

On operation

Before connecting other components, be sure to turn off and unplug the system.

If you encounter color irregularity on a nearby TV screen

Color irregularities may be observed on certain types of TV sets.

If color irregularity is observed...

Turn off the TV set, then turn it on again after 15 to 30 minutes.

If color irregularity is observed again...

Place the subwoofer or the speakers further away from the TV set

On cleaning

Clean the system with a soft dry cloth. Do not use any type of abrasive pad, scouring powder or solvent such as alcohol or benzine.

If you have any question or problem concerning your system, please consult your nearest Sony dealer.

Copyrights

This system incorporates Dolby* Digital and Pro Logic Surround and the DTS** Digital Surround System.

- * Manufactured under license from Dolby Laboratories.
 - "Dolby", "Pro Logic", and the double-D symbol are trademarks of Dolby Laboratories.
- **Manufactured under license under U.S. Patent #'s: 5,451,942; 5,956,674; 5,974,380; 5,978,762; 6,487,535 & other U.S. and worldwide patents issued & pending. DTS and DTS Digital Surround are registered trademarks and the DTS logos and Symbol are trademarks of DTS, Inc. © 1996-2008 DTS, Inc. All Rights Reserved.

This system incorporates High-Definition Multimedia Interface (HDMITM) technology.

HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.

"BRAVIA Sync" is a trademark of Sony Corporation.

"PLAYSTATION" is a trademark of Sony Computer Entertainment Inc.

"S-AIR" and its logo are trademarks of Sony Corporation.

"x.v.Colour (x.v.Color)" and "x.v.Colour (x.v.Color)" logo are trademarks of Sony Corporation.

About the S-AIR function

The system is compatible with the S-AIR function, which allows transmission of sound between S-AIR products wirelessly.

S-AIR receivers can be used with the system. You can enjoy system sound in another room.

S-AIR products can be purchased as options (the S-AIR product lineup differs depending on the area).

Notes or instructions for the S-AIR receiver in these Operating Instructions refer only to when the S-AIR receiver is used.

For details on the S-AIR function, see "Using an S-AIR product" (page 49).

Table of contents

Precautions3
About the S-AIR function4
Getting Started
Unpacking6
Installing the system7
Connecting the speakers11
Connecting components with HDMI
jacks
Connecting components without HDMI jacks14
Setting up the sound output of the
connected component16
Connecting the antenna (aerial)17
Connecting the other components19
Playback Options
Index to parts and controls21
Enjoying TV24
Enjoying other components25
Surround Function
Enjoying the surround effect27
Enjoying the sound at low volume
(NIGHT mode)28
"BRAVIA" Sync Features
What is "BRAVIA" Sync?29
Preparing for the "BRAVIA" Sync29
Enjoying Blu-ray Disc/DVD31
(One-Touch Play)
Enjoying the TV sound from the speakers32
(System Audio Control)
Turning off the TV, system and connected
components33
(System Power Off)
Using the power saving function34
Tuner Functions
Presetting radio stations35
Listening to the radio36
Using the Radio Data System (RDS)38

Advanced Settings

Controlling the connected Sony	
components with the remote	39
Changing the input button assignmen	ts of
the remote	42
Settings and adjustments using the	
amplifier menu	43
Using an S-AIR product	49
Additional Information	
Troubleshooting	59
Specifications	
Glossary	64
Index	66

Getting Started

Unpacking





• Speakers (2)





• FM wire antenna (aerial) (1)



• Speaker cords (2)



• Digital optical cord (2.5 m) (1)



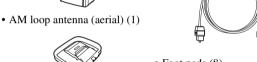
• Remote commander (RM-

AAU060) (1)

• R6 (size AA) batteries (2)



• Operating Instructions (1)

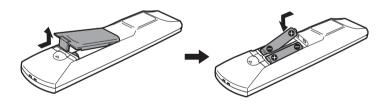


• Foot pads (8)



Inserting batteries into the remote

You can control the system using the supplied remote. Insert two R6 (size AA) batteries by matching the + and - ends on the batteries to the markings inside the compartment.

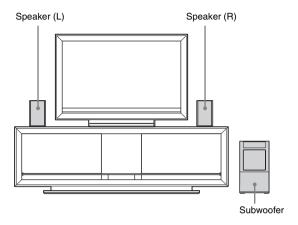


Notes

- Do not leave the remote in an extremely hot or humid place.
- Do not use a new battery with an old one.
- Do not drop any foreign object into the remote casing, particularly when replacing the batteries.
- Do not expose the remote sensor to direct light from the sun or lighting apparatus. Doing so may cause a malfunction.
- If you do not intend to use the remote for an extended period of time, remove the batteries to avoid possible damage from battery leakage and corrosion.

Installing the system

Install the subwoofer and speakers as shown in the illustration below.

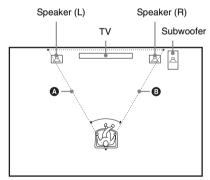


Notes

- Do not block the heat ventilation on the rear panel of the subwoofer.
- Do not cover the grill of the subwoofer.
- It is recommended to place the subwoofer on the front edge of a table or rack, etc., to accept the remote signal correctly.

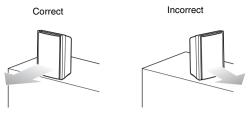
To use the speakers efficiently

Position the speakers so that the distance between each speaker and the listening position (**A** and **B**) is the same (from 0.0 to 7.0 m).

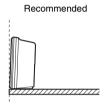


- Place both speakers the same distance apart as they are from the listening position (to form an isosceles triangle).
- The speakers should be placed at least 0.6 m apart.
- Place the speakers forward of the TV. Make sure there are no reflecting obstacles in the way of the speakers.

• Both speakers should be pointed straight forward. Do not place the speakers at an angle.



It is recommended to place the speakers on the edge of a table or rack, etc., to prevent sound reflection.
 Side view

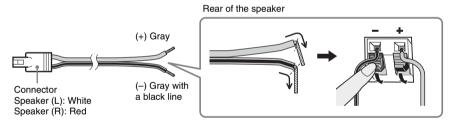


To connect the speaker cords to the speakers

The connector of the speaker cords is color-coded depending on the type of speaker.

Connect the speaker cords to match the color of the SPEAKER jacks of the subwoofer.

Be sure to match the speaker cords to the appropriate terminals on the speakers: the gray speaker cord to +, and the gray speaker cord with a black line to -. Do not catch the speaker cord insulation in the speaker terminals.



To install the speakers on a flat surface

Before you install the speakers, be sure to attach the supplied foot pads to prevent vibration or movement as shown in the illustration below.

You need to attach the supplied foot pads to both the right and left speakers.



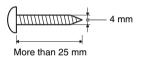
To install the speakers on the speaker stand

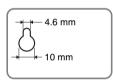
For greater flexibility in positioning the speakers, use the optional WS-FV11 or WS-FV10D speaker stand (available only in certain countries). For details, refer to the operating instructions supplied with the speaker stand.

To install the speakers on a wall

You can install your speakers on the wall.

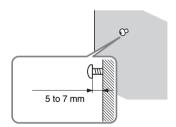
1 Prepare screws (not supplied) that are suitable for the hole on the back of each speaker. See the illustrations below.



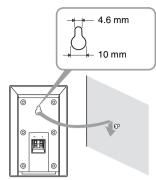


Hole on the rear of the speaker

2 Fasten the screws to the wall. The screws should protrude 5 to 7 mm.



3 Hang the speakers on the screws.



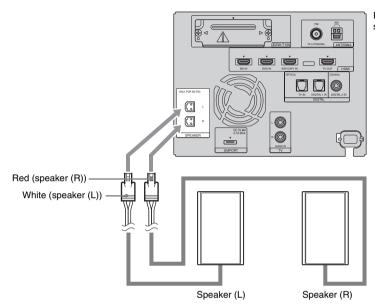
Rear of the speaker

Notes

- Use screws that are suitable for the wall material and strength. As a plaster board wall is especially fragile, attach
 the screws securely to a beam and fasten them to the wall. Install the speakers on a vertical and flat wall where
 reinforcement is applied.
- Contact a screw shop or installer regarding the wall material or screws to be used.
- Sony is not responsible for accident or damage caused by improper installation, insufficient wall strength or improper screw installation, natural calamity, etc.

Connecting the speakers

The connector of the speaker cords is color-coded depending on the type of speaker. Connect the speaker cords to match the color of the SPEAKER jacks of the subwoofer.



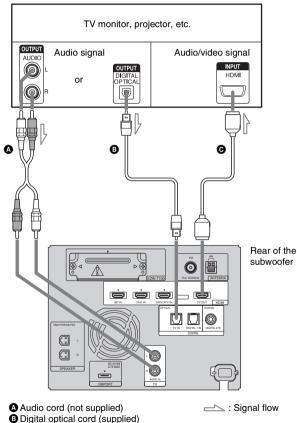
Rear of the subwoofer

Connecting components with HDMI jacks

Sony recommends that you connect components to the system using HDMI cables. With HDMI, you can easily enjoy both high quality sound and high quality images. For details on the Control for HDMI function, refer to "BRAVIA" Sync Features" (page 29). Connect the AC power cord (mains lead) after you have finished connecting all components to the system.

Connecting a TV monitor, projector, etc.

Connect the audio output of the TV to the audio input of the system using a digital optical cord or an audio cord in order to listen to the TV sound from the system.

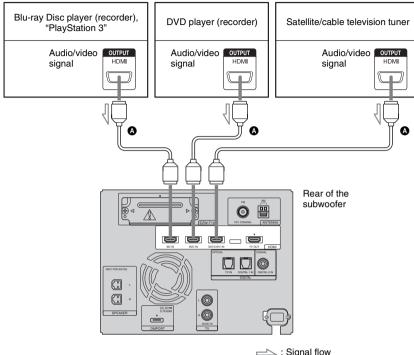


- HDMI cable (not supplied)

Note

• The OPTICAL TV IN jack has priority when you connect both the audio output of the TV to the OPTICAL TV IN and AUDIO IN jack of the system.

Connecting a Blu-ray Disc player (recorder), "PlayStation 3," DVD player (recorder), satellite/cable television tuner, etc.



A HDMI cable (not supplied)

Notes on HDMI connections

- Use a High Speed HDMI cable. If you use a Standard HDMI cable, 1080p images may not be displayed properly.
- Sony recommends that you use an HDMI-authorized cable or Sony HDMI cable.
- Check the setup of the connected component if an image is poor or the sound does not come out of a component connected via the HDMI cable.
- Audio signals (sampling frequency, bit length, etc.) transmitted from an HDMI jack may be suppressed by the connected component.
- Sound may be interrupted when the number of channels or sampling frequency of audio output signals from the playback component is changed.
- When the connected component is not compatible with copyright protection technology (HDCP), the image and/or the sound from the HDMI TV OUT jack may be distorted or may not be output. In this case, check the specification of the connected component.
- We do not recommend using an HDMI-DVI conversion cable.
- When TV, DIGITAL 1, DIGITAL 2, FM, AM, or DMPORT is selected, the video signal that was selected last time is output.
- This system supports "x.v.Colour (x.v.Color)" transmission, extended by HDMI ver1.3.

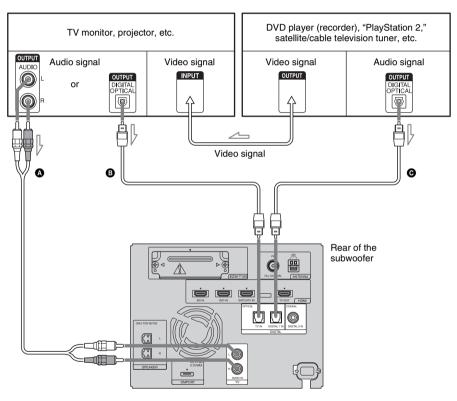
Connecting components without HDMI jacks

When you connect a DVD player (recorder), satellite/cable television tuner, "PlayStation 2," etc., that has no HDMI jacks, connect to the system using the OPTICAL DIGITAL 1 IN or COAXIAL DIGITAL 2 IN jack.

If the satellite/cable television tuner does not have an OPTICAL OUT jack, connect the system using the COAXIAL DIGITAL 2 IN jack. In this case, it is not necessary to connect all the cables. Connect the audio cords according to the jacks of your components.

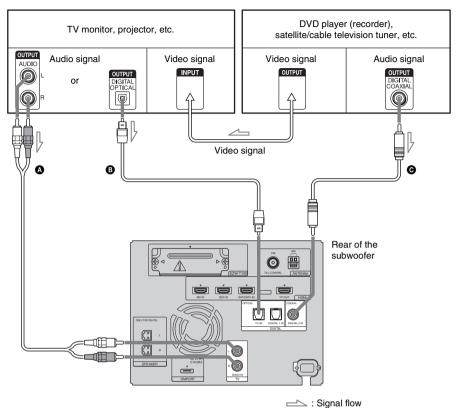
Connect the AC power cord (mains lead) last.

Connecting a component to the OPTICAL DIGITAL 1 IN jack



- Audio cord (not supplied)
- B Digital optical cord (supplied)
- G Digital optical cord (not supplied)

Connecting a component to the COAXIAL DIGITAL 2 IN jack



- Audio cord (not supplied)
- B Digital optical cord (supplied)
- © Digital coaxial cord (not supplied)

Note

• The OPTICAL TV IN jack has priority when you connect both the audio output of the TV to the OPTICAL TV IN and AUDIO IN jack of the system.

Setting up the sound output of the connected component

Depending on the audio output settings of the connected component, the sound may output in 2 channel sound format only. In this case, set the connected component to output the sound in multi channel sound format (PCM, DTS, Dolby Digital). For details on audio output settings, refer to the operating instructions supplied with the connected component.

Connecting the antenna (aerial)

Connecting the AM loop antenna (aerial)

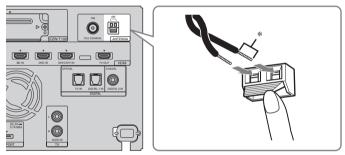
The shape and the length of the antenna (aerial) are designed to receive AM signals. Do not dismantle or roll up the antenna (aerial).

- 1 Remove only the loop part from the plastic stand.
- 2 Set up the AM loop antenna (aerial).



3 Connect the cords to the AM antenna (aerial) terminals.

While pushing down the terminal clamp, insert the (*) part of the cords. The cords can be connected to either terminal.



Rear of the subwoofer

Note

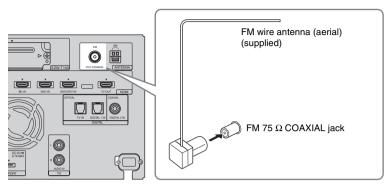
• Do not place the AM loop antenna (aerial) near the system or other AV component, as noise may result.

Tip

- Adjust the direction of the AM loop antenna (aerial) for best AM broadcast sound.
- 4 Make sure the AM loop antenna (aerial) is connected firmly by pulling softly.

Connecting the FM wire antenna (aerial)

Connect the FM wire antenna (aerial) to the FM 75 Ω COAXIAL jack.



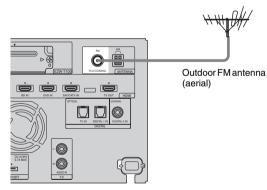
Rear of the subwoofer

Notes

- Be sure to fully extend the FM wire antenna (aerial).
- After connecting the FM wire antenna (aerial), keep it as horizontal as possible.
- Do not use the FM wire antenna (aerial) while it is bundled up.
- Insert the FM wire antenna (aerial) fully and firmly to the terminal.

Tip

• If you have poor FM reception, use a 75-ohm coaxial cable (not supplied) to connect the subwoofer to an outdoor FM antenna (aerial) as shown below.



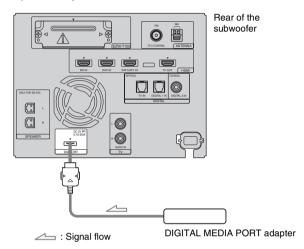
Rear of the subwoofer

Connecting the other components

Connecting the DIGITAL MEDIA PORT adapter

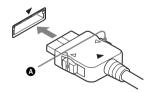
You can enjoy sound from the connected component on the system by connecting the DIGITAL MEDIA PORT adapter.

Connect the AC power cord (mains lead) last.



Notes

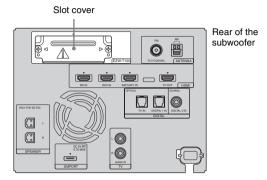
- Do not connect or disconnect the DIGITAL MEDIA PORT adapter while the system is turned on.
- When you connect the DIGITAL MEDIA PORT adapter, be sure the connector is inserted with the arrow mark facing toward the arrow mark on the DMPORT jack. To detach the DIGITAL MEDIA PORT adapter, press and hold (a) and then pull out the connector.



Using the wireless system

The system is compatible with the S-AIR function, which allows sound transmission between the subwoofer and S-AIR product (not supplied). When you purchase the S-AIR product, you need to establish sound transmission.

For details, see page 49.





/ CAUTION

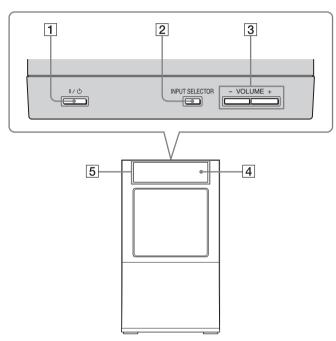
• There is no need to open the slot cover until the S-AIR product is used.

Playback Options

Index to parts and controls

For more information, refer to the pages indicated in parentheses.

Top panel (subwoofer)



1 I/U (on/standby)

Press to turn the system on or off.

2 INPUT SELECTOR

Press to select the input source to play back. Every time you press the button, the input source changes cyclically as follows:

$$TV \rightarrow BD \rightarrow DVD \rightarrow SAT/CATV \rightarrow$$

DIGITAL 1 \rightarrow DIGITAL 2 \rightarrow FM \rightarrow AM \rightarrow DMPORT \rightarrow TV

3 VOLUME +/-

Press to adjust the volume level.

4 Remote sensor **■**

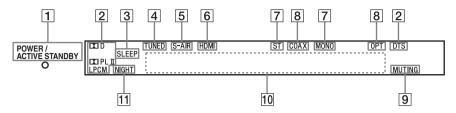
Point the remote here.

5 Front panel display

Check the system status.

Front panel display (subwoofer)

About the indications in the front panel display



1 POWER / ACTIVE STANDBY indicator

Lights as follows:

Green: the system is turned on. No light: the system is turned off.

Amber: while the system is turned off, the Control for HDMI function or the S-AIR STANDBY

MODE function is working.

2 Audio decoding indicators

Lights up according to the audio input signals.*

3 SLEEP (48)

Flashes when the sleep timer function is active.

4 TUNED (35)

Lights up when a radio station is received.

5 S-AIR (49)

Lights up when the S-AIR transmitter (not supplied) is inserted in the subwoofer and the system transmits the sound.

6 HDMI (12, 60)

Lights up when HDMI equipment is in use.

7 ST/MONO (36)

Lights up according to the stereo or monaural status of the radio.

8 COAX/OPT

Lights up according to the cable that you are using.

9 MUTING

Lights up when the sound is turned off.

10 Message display area

Displays volume, selected input source, audio input signal, etc.

11 NIGHT (28)

Lights up in NIGHT mode.

^{*} When " PLII" lights up, S-Force PRO Front Surround is applied after Dolby Pro Logic II.

Remote control

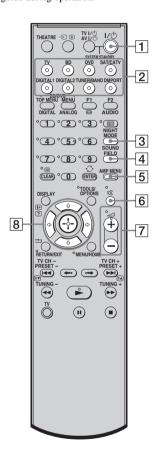
Here describes the buttons for amplifier operation only. See page 39 for the buttons for operation of the connected components.

Note

• Point the remote at the remote sensor 🖫 in the front panel display.

Tip

• The 5, ►, and ∠ + buttons have a tactile dot. Use it as a guide during operation.



1 I/U (on/standby)

Press to turn the system on or off.

2 Input buttons

Press one of the buttons to select the component you want to use.

The buttons are factory assigned to control Sony components. You can change the factory settings of the input buttons to suit the components in your system. For details, refer to "Changing the input button assignments of the remote" (page 42).

3 NIGHT MODE

Press to enjoy sound effects for watching movies at night (page 28).

4 SOUND FIELD

Press to select the sound field (page 27).

5 AMP MENU

Press to display the menu of the system (page 43).

6 🕸 (MUTING)

Press to turn off the sound.

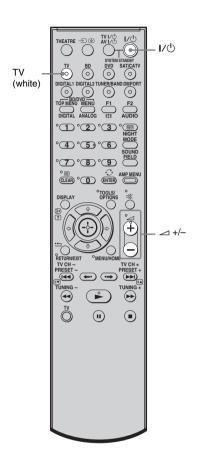
7 4/-

Press to adjust the volume.

$[8] \leftarrow, \uparrow, \downarrow, \rightarrow \text{ or } (\downarrow)$

Press \leftarrow , \uparrow , \downarrow or \rightarrow to select the settings. Then press (\rightarrow) to enter the selection.

Enjoying TV



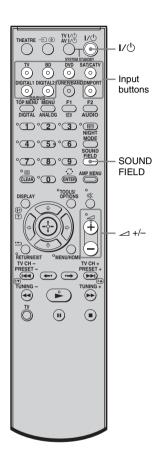
- Turn on the TV and choose a program.

 Refer to the operating instructions of your TV for details.
- **2** Turn the system on.
- 3 Press TV (white) on the remote.
- 4 Adjust the volume of the system.

Tips

- When you connect a Sony TV, the audio input of the TV is switched and the image from the TV tuner is displayed on the TV screen automatically by pressing the TV (white) button. To change this setting, refer to "Changing the input button assignments of the remote" (page 42).
- The sound may be output from the TV's speaker. In this case, turn the volume of the TV's speaker down to the minimum.

Enjoying other components



Enjoying satellite/cable television tuner

- 1 Turn on the TV.
 - Refer to the operating instructions of your TV for details.
- 2 Turn the satellite/cable television tuner and the system on.
- 3 Press SAT/CATV on the remote.
- 4 Change the TV input.

Refer to the operating instructions of your TV for details.

5 Adjust the volume of the system.

Tip

• The sound may be output from the TV's speaker. In this case, turn the volume of the TV's speaker down to the minimum.

Enjoying Blu-ray Disc, DVD or "PlayStation 3"

- 1 Turn on the TV.
- 2 Turn the Blu-ray Disc/DVD player (recorder) or "PlayStation 3" and the system on.
- 3 Press BD or DVD on the remote.
- 4 Change the TV input.

Refer to the operating instructions of your TV for details.

5 Play back the disc.

Tip

 Even if you play back Dolby True HD, Dolby Digital Plus or DTS HD with a connected component compatible with these sound formats, the system accepts as Dolby Digital or DTS. When you play back these high-quality sound formats, set the connected component to output the sound in multi channel PCM, if possible.

Enjoying a connected component through digital connection

You can enjoy an optically connected component by pressing DIGITAL 1 on the remote, and a coaxially connected component by DIGITAL 2.

- 1 Turn the component and the system on.

 Turn on the TV if necessary, and switch the input selector on your TV so that the signal from the system appears on the TV screen.

 For details, refer to the operating instructions of the TV.
- Press DIGITAL 1 or DIGITAL 2 on the remote.
- 3 Play the component, and adjust the volume of the system.

Enjoying a connected component through DMPORT connection

- 1 Press DMPORT on the remote.
- 2 Start playback of the connected component.

Tip

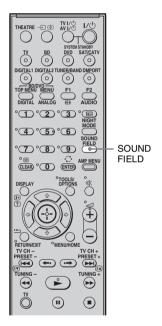
 When listening to MP3 or other compressed music files using a portable audio source, you can enhance the sound. Press SOUND FIELD repeatedly until "P. AUDIO" appears in the front panel display.

Surround Function

Enjoying the surround effect

Selecting the sound field

This system can create multi channel surround sound. You can select one of the optimized sound fields from system's preprogrammed sound fields.



Press SOUND FIELD.

The present sound field appears.

Each time you press the SOUND FIELD button, the display changes cyclically as follows:

STANDARD → MOVIE → DRAMA →

NEWS \rightarrow SPORTS \rightarrow GAME \rightarrow MUSIC \rightarrow LIVE \rightarrow P.AUDIO

Press SOUND FIELD repeatedly until the sound field you want appears.



Available sound fields

Sound field	Effect
STANDARD	Suits various sources.
MOVIE*	Recreates powerful and realistic sound, along with clear dialog.
DRAMA*	Suited for TV dramas.
NEWS*	Produces the announcer's voice clearly.
SPORTS*	Produces the play-by-play commentary clearly and realistic sound with surround effects, such as cheering, etc.
GAME*	Produces powerful and realistic sound, suited for playing video games.
MUSIC	Suited for music programs or music videos on Blu-ray Discs/DVDs.
LIVE	Recreates the atmosphere of a live performance.
P. AUDIO**	Suited to replay portable audio source.

- * These sound fields are not available when "DMPORT" is selected by pressing INPUT SELECTOR.
- ** "P. AUDIO" appears only when "DMPORT" is selected.

Tips

- The sound fields memorized for each input are retained even if you disconnect the AC power cord (mains lead).
- If you press the THEATRE button when "CTRL: HDMI" is set to "ON," the sound field changes to "MOVIE" (some Sony TVs excluded).

Enjoying the sound at low volume (NIGHT mode)

You can enjoy sound effects and to hear the dialog clearly even at a low volume level using this function. This function is useful for enjoying sound at night.



Press NIGHT MODE.

To cancel the night mode, press NIGHT MODE again.

Tip

• You can listen to Dolby Digital sound at low volume by using AUDIO DRC (page 44).

"BRAVIA" Sync Features

What is "BRAVIA" Sync?

By connecting Sony components that are compatible with the "BRAVIA" Sync with an HDMI cable (not supplied), operation is simplified as below:

- One-Touch Play: When you play back a component such as a Blu-ray Disc/DVD player (recorder), the system and the TV are turned on automatically and switch to the appropriate HDMI input.
- System Audio Control: While watching TV, you can select to output the sound from the TV speaker or the speakers of the system.
- System Power Off: When you turn off the TV, the system and the connected components are also turned off simultaneously.

"BRAVIA" Sync is compatible with a Sony TV, Blu-ray Disc/DVD player, AV amplifier, etc., with the Control for HDMI function.

CONTROL FOR HDMI is a mutual control function standard used by CEC (Consumer Electronics Control) for HDMI (High-Definition Multimedia Interface).

The Control for HDMI function will not operate in the following cases:

- When you connect this system to a component that is not compatible with the Control for HDMI function.
- When you connect the system and components using other than HDMI connection.

We recommend that you connect this system to products featuring "BRAVIA" Sync.

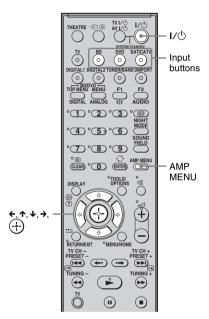
Note

 Depending on the connected component, the Control for HDMI function may not work. See the operating instructions of the component.

Preparing for the "BRAVIA" Sync

To use the "BRAVIA" Sync, set the Control for HDMI function to on for the system and the connected component.

When you connect a Sony TV with the Control for HDMI function, the Control for HDMI function for the system and the connected component can be set simultaneously by setting the Control for HDMI function of the TV.



- 1 Make sure that the system is connected to the TV and the connected components (which should be compatible with the Control for HDMI function) using HDMI cables (not supplied).
- **2** Turn on the system, the TV and the connected components.

- Select the input of the system connected to the component you want to watch (BD, DVD, SAT/CATV), and switch the HDMI input of the TV, so that an image from the connected component is displayed.
- 4 Set the Control for HDMI function of the TV to on

The Control for HDMI function for the system and the connected component is simultaneously set to on.

During the setting, "SCANNING" appears in the front panel display. After you finish the setting, "COMPLETE" appears in the front panel display. Wait until the setting is complete.

If "SCANNING" or "COMPLETE" does not appear after performing the steps above

Set the Control for HDMI function to on for the system and the connected component individually.

- 1 Press AMP MENU.
- 2 Press √/↑ repeatedly until "SET HDMI" appears, then press (+) or →.
- Press √/↑ repeatedly until "CTRL: HDMI" appears, then press (+) or →.
- 4 Press √/↑ to select "ON."
- **5** Press AMP MENU.

The AMP menu turns off. The Control for HDMI function is set to on.

Set the Control for HDMI function of the connected component to on.

For details on setting the connected component, refer to its operating instructions.

7 Select the input of the system connected to the component you want to use the Control for HDMI function for (BD, DVD, SAT/CATV), and repeat step 6.

If you add or reconnect the component

Perform steps of "Preparing for the "BRAVIA" Syne" and "If "SCANNING" or "COMPLETE" does not appear after performing the steps above" again.

Notes

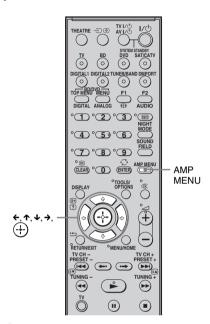
- During the setting of the Control for HDMI function for the system, the System Audio Control function does not work.
- If the Control for HDMI function for the connected component cannot be set simultaneously by setting "CONTROL FOR HDMI" of the TV, set the Control for HDMI function using the menu of the connected component.
- For details on setting the TV and the connected components, refer to their operating instructions.

Tip

• The default setting of the Control for HDMI function of the system is "ON."

Setting the Control for HDMI function to off

Set the Control for HDMI function to off when you connect components not compatible with the "BRAVIA" Sync, or that do not have HDMI jacks, etc.



- 1 Press AMP MENU.
- Press √/↑ repeatedly until "SET HDMI" appears, then press (+) or →.
- 3 Press √/↑ repeatedly until "CTRL: HDMI" appears, then press (-) or →.
- 4 Press √/↑ to select "OFF."
- **5** Press AMP MENU.

The AMP menu turns off.

Enjoying Blu-ray Disc/DVD

(One-Touch Play)

Play back a connected component.

The system and the TV are turned on automatically and switch to the appropriate HDMI input.

Note

• Depending on the TV, the start of the content may not be output.

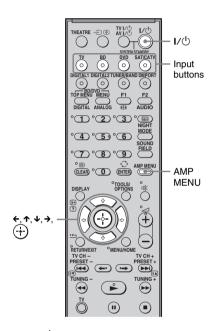
Tip

 You can enjoy the Blu-ray Disc/DVD player (recorder) connected to the system, even if you turn the system off. The POWER / ACTIVE STANDBY indicator lights up in amber at this time.

Enjoying the TV sound from the speakers

(System Audio Control)

You can enjoy the TV sound from the speakers of the system by means of a simple operation. For details, see the operating instructions of the TV.



Press I/U to turn on the system.

The sound is output from the speaker of the system. The sound is output from the TV's speaker when you turn the system off.

Notes

- When the TV is turned on before this system is turned on, the TV sound will not be output for a moment.
- When you connect a TV that does not have System Audio Control function, the System Audio Control function does not work.

Tip

• You can adjust the volume or turn off the sound of the system using the TV remote.

Using the Volume Limit function

When the System Audio Control function is active, and the output method changes from the TV speaker to the system speaker automatically, loud sound may be output depending on the volume level of the system. You can prevent this by limiting the maximum volume level.

- 1 Press AMP MENU.
- Press √/↑ repeatedly until "SET HDMI" appears, then press (+) or →.
- 3 Press √/↑ repeatedly until "VOL LIMIT" appears, then press (+) or →.
- 4 Press ↓/↑ to select the maximum volume level you want.

The maximum volume level changes as follows:

$$MAX \longleftrightarrow 49 \longleftrightarrow 48....2 \longleftrightarrow 1 \longleftrightarrow MIN$$

5 Press AMP MENU.

The AMP menu turns off.

Notes

- This function is available only when the Control for HDMI function is set to on.
- This function is not available when the output method is changed from the system speaker to the TV speaker.

Tips

- We recommend that you set the maximum volume level to a little lower than the volume you usually listen to.
- Regardless of the maximum volume level you set, the VOLUME +/− button of the subwoofer and the ∠ +/− button of the remote are operable.
- If you do not want to limit the maximum volume level, select "MAX."

Using the input buttons of the remote

The input buttons (TV (white), BD, DVD, SAT/CATV) work as follows when the Control for HDMI function is set to on.

- BD, DVD, SAT/CATV: Since the input of the TV is also switched automatically, you can watch the image of the selected component on the TV simply by pressing the buttons.
- TV: The input of the TV switches automatically. When you connect a Sony TV, you can watch the TV simply by pressing the buttons.

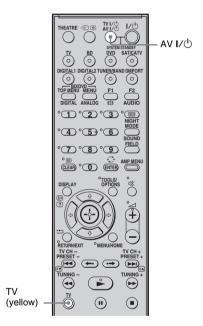
Tip

 You can control connected Sony components by pressing the input buttons. For details, refer to "Controlling the connected Sony components with the remote" (page 39).

Turning off the TV, system and connected components

(System Power Off)

When you turn the TV off by using the POWER button on the TV's remote, the system and the connected components turn off automatically. Also, when you turn the TV off by using the system's remote, the system and the connected components turn off automatically.



Hold down TV (yellow), and press AV I/U.

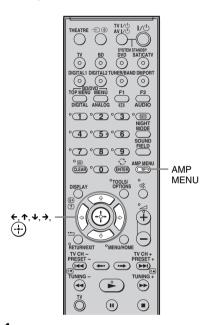
The TV, the system and the connected component are turned off.

Note

 Depending on the status, the connected components may not be turned off. For details, see operating instructions supplied with the connected components.

Using the power saving function

If a "BRAVIA" Sync-compatible TV is connected to the system, and the system is in active standby mode, if the TV is turned off, HDMI signal transmission stops, and power consumption is reduced.



- 1 Press AMP MENU.
- Press √/↑ repeatedly until "SET HDMI" appears, then press (+) or →.
- 3 Press ↓/↑ repeatedly until "POWER SAVE" appears, then press (+) or →.
- 4 Press √/↑ to select the setting.
 - ON: Reduces power consumption in active standby mode. HDMI signal transmission occurs only when the TV is on
 - OFF: No reduction. HDMI signal transmission occurs continuously even if the system is turned off (active standby mode).

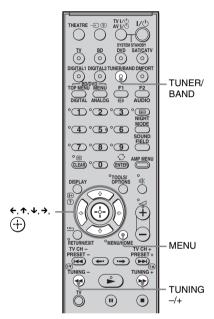
5 Press AMP MENU.

The AMP menu turns off.

Tuner Functions

Presetting radio stations

You can preset 20 FM stations, and 10 AM stations. Before tuning, make sure to turn the volume down to minimum.



1 Press TUNER/BAND.

You can change "FM" or "AM" by pressing TUNER/BAND.

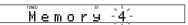
Press and hold TUNING + or – until the auto scanning starts.

Scanning stops when the system tunes in a station. "TUNED" and "ST" (for stereo program) light up in the front panel display.

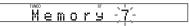
- 3 Press MENU.
- Press ↑/↓ repeatedly until "Memory?" appears in the front panel display.

5 Press (+).

A preset number appears in the front panel display.



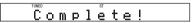
6 Press ↑/↓ to select the preset number you want.



Tip

- You can select the preset number directly by pressing the number buttons.
- 7 Press (+).

The station is stored.



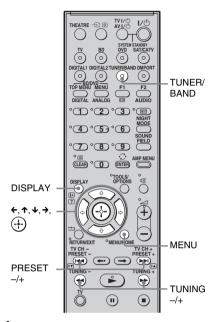
- 8 Press MENU.
- **9** Repeat 2 to 8 to store other stations.

To change the preset number

Restart from step 3.

Listening to the radio

Preset radio stations in the system's memory first (see "Presetting radio stations" (page 35)).



1 Press TUNER/BAND.

The last received station is tuned in. You can change "FM" or "AM" by pressing TUNER/BAND.

2 Press PRESET + or – repeatedly to select the preset station.

Each time you press the button, the system tunes in one preset station.

You can select the preset number directly by pressing the number buttons.

3 Adjust the volume of the system.

To turn off the radio

Press **I**/**U** to turn off the system, or change to another function.

To listen to non-preset radio stations

Use manual or automatic tuning in step 2. For manual tuning, press TUNING + or – repeatedly.

For automatic tuning, press and hold TUNING + or —. The automatic tuning stops automatically when the system receives a radio station. To stop the automatic tuning manually, press TUNING + or —.

If an FM program is noisy

If an FM program is noisy, you can select monaural reception. There will be no stereo effect, but reception will improve.

- 1 Press MENU.
- Press ↑/↓ repeatedly until "FM Mode?" appears in the front panel display, then press (+) or →.
- 3 Press ↑/↓ to select "MONO."

"MONO" lights up in the front panel display.

The default setting is underlined.

- <u>STEREO</u>: stereo broadcasts are received in stereo.
- MONO: monaural reception.
- 4 Press (+).
- 5 Press MENU.

Tip

 To improve reception, reorient the supplied antennas (aerials).

Naming preset stations

You can enter a name for preset stations. These names (for example, "XYZ") appear in the front panel display when a station is selected.

You can enter a name of up to 8 characters for inputs and display it.

Note that no more than one name can be entered for each preset station.

Note

 You cannot enter a name for preset stations of the Radio Data System (RDS) (page 38).

1 Press TUNER/BAND.

The last received station is tuned in.
You can change "FM" or "AM" by pressing TUNER/BAND.

- Press PRESET + or repeatedly to select the preset station you want to create an index name for.
- 3 Press MENU.
- Press ↑/→ repeatedly until "Name In?" appears in the front panel display.



- 5 Press 🕂.
- **b** Create a name by using ←/↑/↓/→.

Press ★/♣ to select a character, then press → to move the cursor to the next position.

Letters, numbers, and other symbols can be input for a radio station name.

If you enter a wrong character

Press ←/→ repeatedly until the character to be changed flashes, then press ↑/↓ to select the desired character.

To erase the character, press \leftarrow/\rightarrow repeatedly until the character to be erased flashes, then press CLEAR.

7 Press (+).

"Complete!" appears in the front panel display, and the station name is stored.



8 Press MENU.

Tip

• You can check the frequency in the front panel display by pressing DISPLAY repeatedly (page 37).

Viewing the station name or frequency in the front panel display

When the system is set to "FM" or "AM," you can check the frequency using the front panel display.

Press DISPLAY.

Each time you press DISPLAY, the front panel display changes as shown.

- 1) Station name*
- 2 Frequency**
- * This is displayed if you have entered a name for a preset station.
- **Returns to the original display when several seconds have elapsed.

Using the Radio Data System (RDS)

What is the Radio Data System?

The Radio Data System (RDS) is a broadcasting service that allows radio stations to send additional information along with the regular program signal. This tuner offers convenient RDS features, such as station name display. RDS is available only for FM stations.*

* Not all FM stations provide RDS service, nor do they provide the same type of services. If you are not familiar with the RDS system, check with your local radio stations for details on RDS services in your area.

Receiving RDS broadcasts

Simply select a station from the FM band.

When you tune in a station that provides RDS services, the station name* appears in the front panel display.

* If an RDS broadcast is not received, a station name will not appear in the front panel display.

Note

 RDS may not work properly if the station you are tuned to is not transmitting the RDS signal properly, or if the signal strength is weak.

Tip

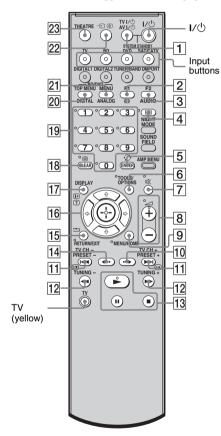
 When a station name is displayed, you can check the frequency by pressing DISPLAY repeatedly.

Advanced Settings

Controlling the connected Sony components with the remote

You can control connected Sony components with the remote of this system.

Some functions may not be selectable depending on the equipment. In that case, select them using the remote control supplied with the equipment.



Controlling the component

Press one of the input buttons (TV, BD, DVD or SAT/CATV) to select the component you want to operate.

The component assigned to the selected input button becomes operable.

Referring to the following table, press the corresponding button for the operation.

Common operations

Remote Button	Function
1 TV I/🖰	Turns on or off the Sony
AV I/Ů	TV or audio/video
(on/standby)	components that the
	remote is assigned to
	operate.
	Press I/ (and 1 TV I/ ()/
	AV I/ () at the same time to
	turn off the system and all
	other components that the
	remote is assigned to
	operate (SYSTEM
	STANDBY).
5 ENTER	Enters the selection.
19 Number buttons	Selects channels and tracks
	directly.

To control the TV

Press and hold the TV (yellow) button while pressing the buttons with a yellow dot or yellow printing to control the TV.

Remote Button	Function
2 (Screen mode)	Changes the screen format manually to suit the broadcast.
3 AUDIO	Selects the sound from the speaker for a stereo or bilingual broadcast.
4 (Guide)	Press to display the guide when you are watching analog or digital channels.
(Previous channel)	Returns to the previous channel watched (for more than five seconds).

Remote Button Function TOOLS/ Enables you to various viewing and change/mal adjustments acc	g options ke
OPTIONS various viewing and change/mal adjustments acc	g options ke
the source and s format.	
7 (Muting) Press to turn of	f the sound.
8 ∠ +/− Press to adjust t	the volume.
MENU/HOME Allows you to s channels or input and change the your TV.	ut sources
In TV CH +/-/ □ / □ In TV mode: So next (+) or previous channel. In Text mode: So next (□) or previous (□) page.	vious (–) Selects the
15 ← RETURN/EXIT Returns to the part screen of any dimenu.	
$ \hline 16 ←, ↑, ↓, →, ← Selects a menu enters the select$	
reveal) In digital mode: reveal) In digital mode: brief details of ti currently being In analogue mo Displays inform as current cham and screen form In text mode: R hidden informat answers to a qu	he program watched. de: nation such nel number nat. eveals tion (e.g.
18 (Text) Displays text.	
19 Number buttons Selects channel ENTER to chan channels immed	nge
20 DIGITAL Changes to digi	ital mode.
21 ANALOG Changes to anal	log mode.
[22] → /(‡) (Input In TV mode: Se select/Text hold) In analogue tex Holds the curre	t mode:

Remote Button	Function
23 THEATRE	Press to automatically set
	the optimal picture settings
	for watching movies, when
	you connect a Sony TV
	which is compatible with
	the THEATRE button.
	Also, the audio is
	automatically switched to
	the audio output of this
	system when you connect
	the TV and the system with
	HDMI connection, and the
	Control for HDMI function
	is set to on.

To control the Blu-ray Disc/DVD/ Hard disc recorder

Remote Button	Function
2 F1	Selects the HDD.
3 F2	Selects the Blu-ray Disc/ DVD.
4 Guide)	Displays the guide menu.
9 MENU/HOME	Displays the MENU.
10 ⋅→	Jumps forward while viewing recorded programs.
11 144	Skips chapters.
▶ ▶I	Jumps forward to the next available chapter.
12 44/>>	To fast reverse or to fast forward the disc when pressed during playback.
(pause, press again to resume normal playback)/■ (stop)	Play mode buttons.
14 ←・	Jumps backward while viewing live or recorded programs.
16 ←, ↑, ↓, →,	Selects a menu item and enters the selection.
20 BD/DVD TOP MENU	Displays the top menu/disc menu.
21 BD/DVD MENU	=

To control the Blu-ray Disc/DVD player

Remote Button	Function
9 MENU/HOME	Displays the MENU.
10 ⋅ →	Jumps forward.
11 44/>>	Skips chapters.
12 ◀◀/▶▶	To fast reverse or to fast forward the disc when pressed during playback.
13 ► (playback)/II	Play mode buttons.
(pause, press again to resume normal playback)/■ (stop)	
14 ←・	Jumps backward.
16 ←, ↑, ↓, →, (♣)	Selects a menu item and enters the selection.
20 BD/DVD TOP MENU	Displays the top menu/disc menu.
21 BD/DVD MENU	

To control the HDD/DVD COMBO

TO CONTROL THE HDD/DVD COMBO	
Remote Button	Function
2 F1	Selects the HDD.
3 F2	Selects the DVD.
4 Guide)	Displays the guide menu.
9 MENU/HOME	Displays the MENU.
10 ⋅ →	Advance.
11 144/>>	Specifies the previous/next chapter/track.
12 ◀◀/▶▶	To fast reverse or to fast forward the disc when pressed during playback.
(pause, press again to resume normal playback)/■ (stop)	Play mode buttons.
14 ←・	Changes to replay mode.
16 ←, ↑, ↓, →, (±)	Moves the highlight (cursor) and selects the item.
20 BD/DVD TOP MENU	Displays the top menu/disc menu.
21 BD/DVD MENU	

To control the satellite/cable television tuner

Remote Button	Function
4 Guide)	Displays the guide menu.
9 MENU/HOME	Displays the MENU.
16 ←, ↑, ↓, →, (+-)	Selects a menu item and
· ·	enters the selection.

Note

 The above explanations are intended to serve as an example only. Depending on the component, the above operations may not be possible, or may operate differently than described.

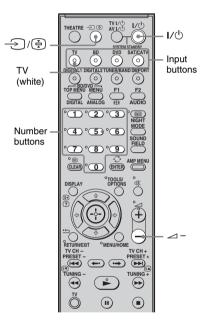
Tip

• The 5, ▶, and △ + buttons have a tactile dot. Use it as a guide during operation.

Changing the input button assignments of the remote

You can change the factory settings of the input buttons to suit the components in your system. For example, if you connect a Blu-ray Disc player to the DVD jack on the system, you can set the DVD button on this remote to control the Blu-ray Disc player.

You cannot assign any component other than a TV to the TV (white) button of the remote.



Hold down the input button you want to change the assignment of.

Example: Hold down DVD.

Referring to the following table, press the corresponding button for the category you want.

Example: Press 3.

Now you can use the DVD button to control

the Blu-ray Disc player.

Categories and the corresponding buttons for BD, DVD and SAT/CATV

Categories	Press
DVD player	1
(command mode DVD1)	
DVD recorder	2
(command mode DVD3)*	
Blu-ray Disc player	3
(command mode BD1)**	
Blu-ray Disc recorder	4
(command mode BD3)	
Euro Digital Satellite Receiver***	7

- * The default setting of the DVD button. Sony DVD recorders are operated with a DVD1 or DVD3 setting. For details, refer to the operating instructions supplied with the DVD recorders.
- ** The default setting of the BD button.
 For details on the BD1 or BD3 setting, refer to the operating instructions supplied with the Blu-ray Disc player or Blu-ray Disc recorder.
- *** The default setting of the SAT/CATV button.

Categories and the corresponding buttons for TV

Categories	Press
TV*	5
TV**	6

- * The default setting of the TV (white) button. When this setting is selected, the audio input of the TV is switched and the image from the TV tuner is displayed on the TV screen automatically, by pressing the TV (white) button.
- ** When this setting is selected, the audio input of the TV is switched automatically by pressing the TV (white) button.

To clear all remote button assignments

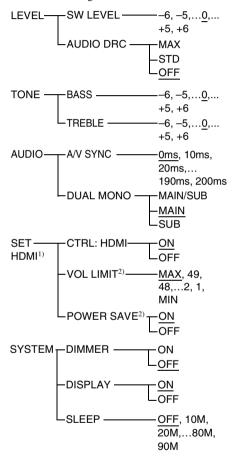
Press and hold $\triangle -$, $1/\bigcirc$, and then press $-\bigcirc$ $/\bigcirc$. The remote is reset to its factory settings.

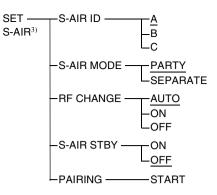
Settings and adjustments using the amplifier menu

Using the AMP menu

You can set the following items with AMP MENU on the remote.

The default settings are underlined.



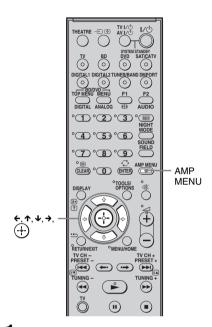


- 1) Refer to "BRAVIA" Sync Features" (page 29).
- 2) This setting appears only when "CTRL: HDMI" is set to "ON."
- 3) This setting appears only when you insert the S-AIR transmitter (not supplied).
- Press AMP MENU to turn on the AMP menu.
- 2 Press ←/↑/↓/→ repeatedly to select the item and the setting.
- 3 Press AMP MENU to turn off the AMP menu.

The following pages show details for each setting.

Setting the subwoofer level (SW LEVEL)

You can use the SW LEVEL menu to adjust the level of the subwoofer.



- 1 Press AMP MENU.
- 2 Press ↓/↑ repeatedly until "LEVEL" appears, then press (+) or →.
- 3 Press √/↑ repeatedly until "SW LEVEL" appears, then press (+) or →.
- 4 Press √/↑ to adjust the subwoofer level.

Default setting: 0 (dB)

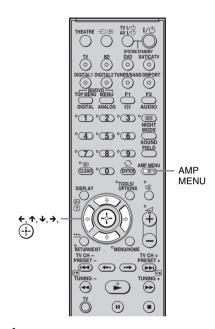
You can adjust from -6 (dB) to +6 (dB) in 1 dB steps.

b Press AMP MENU.

The AMP menu turns off.

Enjoying Dolby Digital sound at low volume (AUDIO DRC)

Narrows the dynamic range of the sound track. Useful for enjoying movies at low volume. AUDIO DRC only applies to Dolby Digital sources.

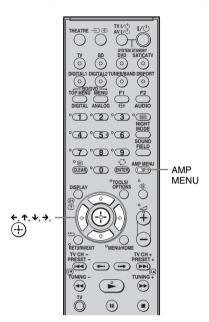


- 1 Press AMP MENU.
- Press √/↑ repeatedly until "LEVEL" appears, then press (+) or →.
- 3 Press ↓/↑ repeatedly until "AUDIO DRC" appears, then press (-†-) or →.
- 4 Press **√**/↑ to select the setting.
 - MAX: Compresses dynamic range fully.
 - STD: Reproduces the sound track with the kind of dynamic range that the recording engineer intended.
 - OFF: No compression of dynamic range.
- 5 Press AMP MENU.

The AMP menu turns off.

Adjusting the bass and treble level (BASS, TREBLE)

You can adjust the bass and treble level easily.



- **1** Press AMP MENU.
- 2 Press √/↑ repeatedly until "TONE" appears, then press (+) or →.
- Press √/↑ repeatedly until "BASS" or "TREBLE" appears, then press ⊕ or →.
- 4 Press √/↑ to adjust the level.

Default setting: 0 (dB)

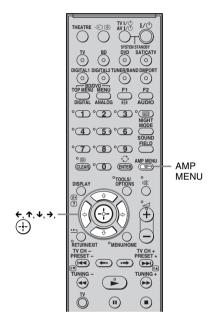
You can adjust from -6 (dB) to +6 (dB) in 1 dB steps.

5 Press AMP MENU.

The AMP menu turns off.

Adjusting the delay between the sound and the image (A/V SYNC)

You can delay the sound using this function when the image is behind the sound.



- 1 Press AMP MENU.
- 2 Press ↑/↓ repeatedly until "AUDIO" appears, then press (+) or →.
- Press ↑/↓ repeatedly until "A/V SYNC" appears, then press (+) or →.
- 4 Press ↑/↓ to select the setting.

Default setting: 0 ms

You can adjust from 0 ms to 200 ms in 10 ms steps.

5 Press AMP MENU.

The AMP menu turns off.

Notes

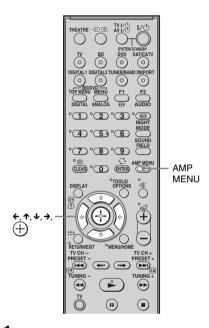
- You may not be able to adjust the delay between sound and image perfectly using this function.
- This function is useful only for Dolby Digital, DTS and Linear PCM (2ch) input by coaxial (audio), optical (audio) or HDMI.

Enjoying multiplex broadcast sound (DUAL MONO)

You can enjoy multiplex broadcast sound when the system receives an AC-3 multiplex broadcast signal.

Note

 To receive AC-3 signal, you need to connect a digital satellite tuner to the system with a digital optical cord, digital coaxial cord or HDMI cable, and set the digital output mode of the digital satellite tuner to AC-3.



- 1 Press AMP MENU.
- Press √/↑ repeatedly until "AUDIO" appears, then press (+) or →.
- 3 Press ↓/↑ repeatedly until "DUAL MONO" appears, then press ↔ or →.

4 Press √/↑ to select the sound you want.

• MAIN/SUB: Main sound is output from

the left speaker and sub sound is output from the

right speaker.

• MAIN: Plays back only the main

channel.

• SUB: Plays back only the sub

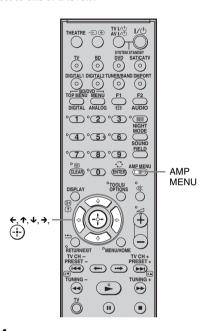
channel.

5 Press AMP MENU.

The AMP menu turns off.

Changing the brightness of the front panel display (DIMMER)

The brightness of the front panel display can be set to one of 2 levels.

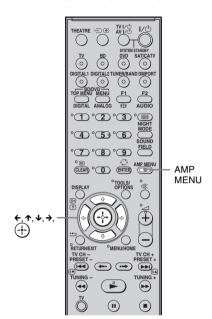


- 1 Press AMP MENU.
- Press ↑/→ repeatedly until "SYSTEM" appears, then press (+) or →.
- 3 Press ↑/↓ repeatedly until "DIMMER" appears, then press (+) or →.
- 4 Press ↑/↓ to select the brightness of the front panel display.
 - ON: Dim.OFF: Bright.
- **5** Press AMP MENU.

The AMP menu turns off.

Changing the display setting (DISPLAY)

You can change the display setting.



- 1 Press AMP MENU.
- Press √/↑ repeatedly until "SYSTEM" appears, then press (+) or →.
- 3 Press **√**/↑ repeatedly until "DISPLAY" appears, then press (+) or →.
- Press √/↑ to select the setting of the front panel display.
 - ON: The display appears all the time.
 - OFF: The display appears for a moment when you operate the system.

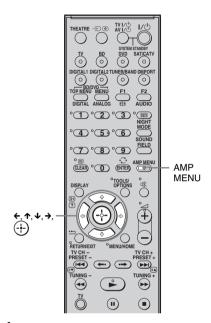
Note

- The display appears all the time when the protection function is working, even if you set the "DISPLAY" to "OFF."
- **5** Press AMP MENU.

The AMP menu turns off.

Using the sleep timer (SLEEP)

You can set the system to turn off at a preset time when you sleep listening to music. You can preset the time in 10 minutes decrements.



- 1 Press AMP MENU.
- 2 Press √/↑ repeatedly until "SYSTEM" appears, then press (+) or →.
- 3 Press √/↑ repeatedly until "SLEEP" appears, then press (-+) or →.
- 4 Press √/↑ to select the preset time.

The minutes display (the remaining time) changes as follows:

5 Press AMP MENU.

The AMP menu turns off.

Note

• This function is only for this system, not for the connected TV or other components.

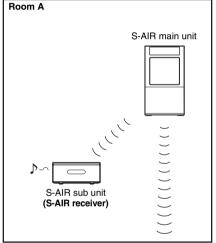
Using an S-AIR product

The system is compatible with the S-AIR function (page 64), which allows sound transmission between the system and an S-AIR receiver (not supplied).

About S-AIR products

There are two types of S-AIR products.

- S-AIR main unit (this subwoofer): This is for transmitting sound. You can use up to three S-AIR main units. (The number of usable S-AIR main units depends on the use environment.)
- S-AIR sub unit (S-AIR receiver) (not supplied): This is for receiving sound. You can enjoy system sound in another room.





Inserting the wireless transmitter/transceiver

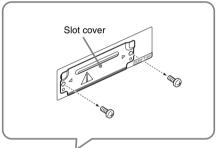
To make use of the S-AIR function, you need to insert the wireless transmitter into the subwoofer and the wireless transceiver into the S-AIR sub unit

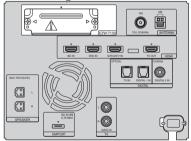
Notes

- When you insert the wireless transmitter/transceiver, make sure that the AC power cord (mains lead) is not connected to a wall outlet (mains).
- Do not touch the terminals of the wireless transmitter/ transceiver.

To insert the wireless transmitter into the subwoofer

Remove the screws and detach the slot cover.



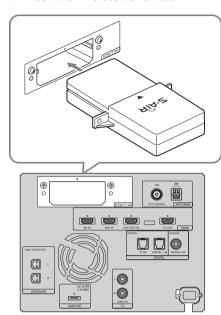


Rear of the subwoofer

Notes

- Remove the screws from the slot cover bearing the caution mark. Do not remove other screws.
- The slot cover is no longer necessary; however, keep it after detaching.

2 Insert the wireless transmitter.

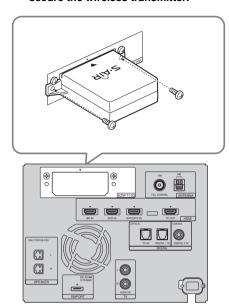


Rear of the subwoofer

Notes

- Insert the wireless transmitter with the S-AIR logo facing up.
- Insert the wireless transmitter so that the ▼ marks are aligned.
- Do not insert anything other than the wireless transmitter into the EZW-T100 slot.

3 Make sure to use the same screws to secure the wireless transmitter.



Rear of the subwoofer

Note

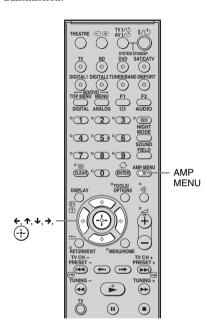
• Do not use other screws to fasten the wireless transmitter.

To insert the wireless transceiver into the S-AIR sub unit

For details on installing the wireless transceiver into the S-AIR sub unit, refer to the operating instructions of the S-AIR sub unit.

Establishing sound transmission between the subwoofer and S-AIR sub unit (ID setting)

Simply by matching the ID of the subwoofer and the S-AIR sub unit, you can establish sound transmission



To set the ID of the subwoofer

1 Turn on the subwoofer.

The subwoofer turns on.

- 2 Press AMP MENU.
- 3 Press ↑/↓ repeatedly until "SET S-AIR" appears in the front panel display, then press (+) or →.

Note

- When the wireless transmitter is not inserted in the subwoofer, "SET S-AIR" cannot be selected.
- 4 Press √/↑ repeatedly until "S-AIR ID" appears in the front panel display, then press (+) or →.
- 5 Press ↑/↓ to select the desired ID.

You can select any ID (A, B, or C).

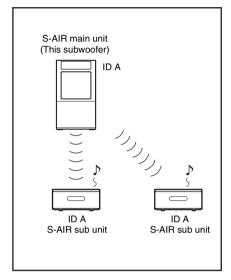
6 Press (+).

The setting is made.

7 Press AMP MENU.

The AMP menu turns off.

8 Set the S-AIR sub unit to the same ID. Sound transmission is established as follows (example):



Tip

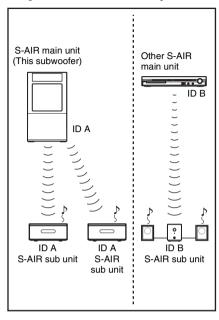
To confirm the current ID, perform Steps 1 to 3 above.
 When you pair the subwoofer with the S-AIR sub unit (page 54), "(PAIRING)" appears beside ID in the front panel display.

To set the ID of the S-AIR receiver

Refer to the operating instructions of the S-AIR receiver.

To use multiple S-AIR main units

You can use multiple S-AIR main units by setting a different ID for each component.



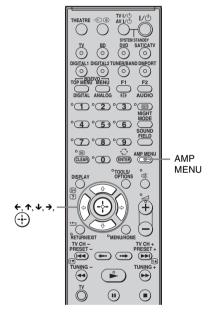
Enjoying the system's sound in another room

You can enjoy the system's sound by using the S-AIR receiver. The S-AIR receiver can be placed in another room for enjoying the system's sound there.

For details of the S-AIR receiver, refer to the operating instructions of the S-AIR receiver.

Note

• Sources with copyright protection may not be playable on S-AIR receivers.



- 1 Press AMP MENU.
- 2 Press ↑/↓ repeatedly until "SET S-AIR" appears in the front panel display, then press (+) or →.

Note

- When the wireless transmitter is not inserted in the subwoofer, "SET S-AIR" cannot be selected.
- Press √/↑ repeatedly until "S-AIR MODE" appears in the front panel display, then press (÷) or →.

4 Press ↑/↓ to select the desired setting.

- "PARTY": The S-AIR receiver outputs sound according to functions set on the subwoofer.
- "SEPARATE": You can set the desired function for the S-AIR receiver while functions of the subwoofer do not change.
- **5** Press (+).

The setting is made.

6 Press AMP MENU.

The AMP menu turns off.

- 7 Select the desired function on the S-AIR receiver.
 - When "PARTY" is set

The **S-AIR receiver's** function changes sequentially as you press INPUT SELECTOR of the main unit (page 21) or S-AIR CH of the S-AIR receiver.

■ When "SEPARATE" is set

The **S-AIR receiver's** function changes by pressing S-AIR CH of the S-AIR receiver as follows.

"MAIN UNIT" \rightarrow "TUNER FM" \rightarrow "TUNER AM" \rightarrow "DMPORT" \rightarrow ...

To enjoy the same function as the subwoofer, select "MAIN UNIT." When "TUNER FM" or "TUNER AM" is selected on the subwoofer, you can only select the same band for the tuner on the S-AIR receiver. In this case, when you select other than "TUNER FM" or "TUNER AM" on the subwoofer, you can select any band for the tuner on the S-AIR receiver.

8 Adjust the volume on the S-AIR receiver.

Note

 When the sound is other than 2 channel stereo, multichannel sound is downmixed to 2 channel.

To control the system from the S-AIR receiver

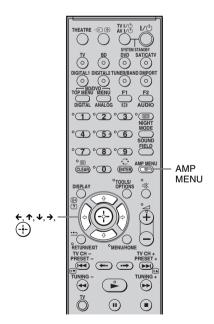
You can control the system from the S-AIR receiver by using the following buttons.

Press	Operation	
▶ , II , ■ ,	Share the same operations on the	
 ◀◀ /▶▶	remote.	
S-AIR CH	Change the function of the system.	

For details, refer to the operating instructions of the S-AIR receiver.

Enjoying the S-AIR receiver while the subwoofer is in standby mode (S-AIR STANDBY MODE)

You can enjoy the S-AIR receiver while the subwoofer is in standby mode by setting "S-AIR STBY" to "STBY ON."



1 Press AMP MENU.

Press ↑/↓ repeatedly until "SET S-AIR" appears in the front panel display, then press (+) or →.

Note

- When the wireless transmitter is not inserted in the subwoofer, "SET S-AIR" cannot be selected.
- 3 Press √/↑ repeatedly until "S-AIR STBY" appears in the front panel display, then press (---) or →.
- 4 Press ↑/↓ to select the desired setting.
 - "STBY ON": You can enjoy the S-AIR receiver while the subwoofer is in standby mode or turned on. The power consumption during the standby mode increases.
 - "STBY OFF": You cannot enjoy the S-AIR receiver while the subwoofer is in standby mode.
- **5** Press . The setting is made.
- 6 Press AMP MENU.
 The AMP menu turns off.

Note

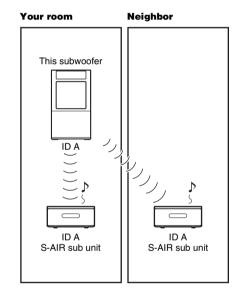
 When you turn the system off while "S-AIR STBY" is set to "STBY ON," the POWER / ACTIVE STANDBY indicator lights up in amber in the front panel display.

Identifying the subwoofer with a specific S-AIR sub unit (Pairing operation)

It is easy to set the same ID for the subwoofer and an S-AIR sub unit to establish sound transmission. However, neighbors may also receive your system's sound if IDs are the same, or you may receive sound from neighbors. To prevent this, you can identify the subwoofer with a specific S-AIR sub unit by performing the pairing operation.

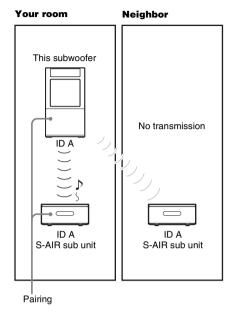
■ Before pairing

Sound transmission is established by ID (example).



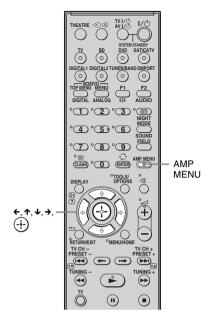
■ After pairing

Sound transmission is established between the paired subwoofer and S-AIR sub unit(s) only.



To perform pairing

- Place the S-AIR sub unit that you want to pair near the subwoofer.
- 2 Match the IDs of the subwoofer and the S-AIR sub unit.
 - To set the ID of the subwoofer, see "To set the ID of the subwoofer" (page 51).
 - To set the ID of the S-AIR sub unit, refer to the operating instructions of the S-AIR sub unit.



- 3 Press AMP MENU.
- 4 Press ↑/↓ repeatedly until "SET S-AIR" appears in the front panel display, then press (+) or →.

Note

- When the wireless transmitter is not inserted in the subwoofer, "SET S-AIR" cannot be selected.
- Press √/↑ repeatedly until "PAIRING" appears in the front panel display, then press (+) or →.
- After "START" appears in the front panel display, press (+).

The subwoofer starts pairing and "SEARCH" flashes in the front panel display.

To cancel pairing, press AMP MENU.

7 Start pairing of the S-AIR sub unit.

Refer to the operating instructions of the S-AIR sub unit.

When sound transmission is established, "COMPLETE" appears for two seconds in the front panel display.

Note

 Perform pairing within several minutes of Step 6. If you do not, "FAILED" appears for two seconds in the front panel display. To continue pairing, press (4) and start again from Step 3.
 To cancel pairing, press AMP MENU.

8 Press AMP MENU.

The AMP menu turns off.

Note

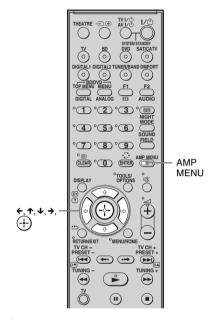
 After you have performed pairing, if you select "S-AIR ID" (page 54), the ID setting ("A," "B," or "C") that you last used is displayed first by default.

To cancel pairing

Perform the ID setting of the subwoofer according to the procedure of "To set the ID of the subwoofer." If you select a new ID, pairing is canceled.

If sound transmission is unstable

If you use multiple wireless systems which share the 2.4 GHz band, such as wireless LAN or Bluetooth, the transmission of S-AIR products or other wireless systems may be unstable. In this case, the transmission may be improved by changing the following "RF CHANGE" setting.



- 1 Press AMP MENU.
- 2 Press √/↑ repeatedly until "SET S-AIR" appears in the front panel display, then press (--) or ->.
- Press ↑/↓ repeatedly until "RF CHANGE" appears in the front panel display, then press (+) or →.

4 Press ↑/↓ to select the desired setting.

- "AUTO": Normally select this. The system changes "RF CHANGE" to "ON" or "OFF" automatically.
- "ON": The system transmits sound by searching for the better channel for transmitting.
- "OFF": The system transmits sound by fixing the channel for transmitting.
- **5** Press (+).

The setting is made.

6 Press AMP MENU.

The AMP menu turns off.

When you set "RF CHANGE" to "OFF," select the ID so that sound transmission is most stable (page 51).

Notes

- When the wireless transmitter is not inserted in the subwoofer, "SET S-AIR" cannot be selected.
- In most cases, you will not need to change this setting.
 - If "RF CHANGE" is set to "OFF," transmission between the subwoofer and S-AIR sub unit can be performed using one of the following channels.
 - S-AIR ID A: equivalent channel for IEEE 802.11b/ g channel 1
 - S-AIR ID B: equivalent channel for IEEE 802.11b/ g channel 6
 - S-AIR ID C: equivalent channel for IEEE 802.11b/ g channel 11
- The transmission may be improved by changing the transmission channel (frequency) of the other wireless system(s). For details, refer to the operating instructions of the other wireless system(s).

Stabilizing S-AIR reception

Read the following when S-AIR reception is poor or unstable.

Confirm the wireless adapters are inserted correctly (page 49).

Confirm that the S-AIR IDs of the S-AIR main unit and sub unit are the same (page 51).

About environments where S-AIR products (S-AIR main unit and sub unit) are used

S-AIR products use a radio frequency of 2.4 GHz. Certain electronic equipment or other factors may cause lost connection or instability in S-AIR reception.

Electronic equipment influence

The following may cause interference or cross talk.

- Cellular phones, cordless phones
- Wireless LAN, personal computers
- Game machines using radio signals
- Microwave ovens



Other factors

The following may cause poor reception.

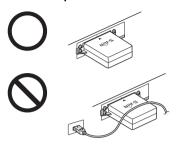
- Materials or structures, such as walls and floors
- The location where an S-AIR product is placed

When using S-AIR products, place them as far as possible from the above electronic equipment, or place where S-AIR reception is stable.

When S-AIR reception is poor

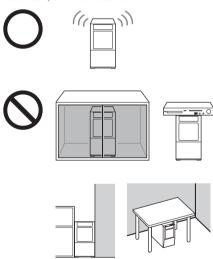
Check the following.

Keep cords that are connected to the S-AIR product (AC power cord (mains lead), speaker cords, or other cords) away from the wireless adapter and slot.

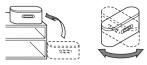


Keep as much space as possible around S-AIR products.

Avoid placing S-AIR products on top of, or directly below, other electronic equipment. Avoid placing S-AIR products in a closed rack, metal rack, or under a table.



Adjust the location (height, orientation, and place in the room) of S-AIR products until reception is the most stable.



Place so that the wireless adapters of the S-AIR main unit and sub unit are closer.



Place so that S-AIR products are separated from other wireless devices.



Place so that S-AIR products are separated from metal doors or tables.

If you cannot improve S-AIR reception, change the "RF CHANGE" setting (page 56).

Additional Information

Troubleshooting

If you experience any of the following difficulties while using the system, use this troubleshooting guide to help remedy the problem before requesting repairs. Should any problem persist, consult your nearest Sony dealer.

When you install the S-AIR sub unit (optional), in the event of a problem with the S-AIR function, have a Sony dealer check the entire system together (main unit and S-AIR sub unit).

General

The power is not turned on.

• Check that the AC power cord (mains lead) is connected securely.

If "PROTECTOR" and "PUSH POWER" appears alternately in the front panel display.

Press I/() to turn off the system, and check the following item after "STANDBY" disappears.

• Is anything blocking the ventilation holes of the system?

After checking the above and fixing any problems, turn on the system. If the cause of the problem cannot be found even after checking the above, consult your nearest Sony dealer.

Dolby Digital or DTS multi channel sound is not reproduced.

- Check that the playing Blu-ray Disc, DVD, etc., is recorded in Dolby Digital or DTS format
- Check the audio setting (settings for the audio output) of the connected component.

The surround effect cannot be obtained.

• Change to another input by pressing the input button (TV, BD, DVD, SAT/CATV, DIGITAL 1, DIGITAL 2, TUNER/BAND, or DMPORT) on the remote, and then go back to the input you want to check. If "2.0ch" or "1.0ch" is displayed in the front panel display, the signal is stereo or

- monaural and does not include multi channel sound. If "5.1ch," etc., is displayed, the signal is multi channel, but the surround effect may be low depending on the program or disc.
- Depending on the digital signal, the surround processing may not work (page 27).

No sound or only a very low-level sound is heard from the speakers.

- Press ∠ + and check the volume level.
- Press SOUND FIELD and check the selected sound field.
- Depending on the source, the sound effect of the speakers may be less noticeable.
- Check the speaker connection (page 11).

The sound comes out only from the speaker, not the subwoofer.

• Depending on the disc, the sound may come from the speaker only.

The sound is delayed compared to the image of the TV

• Set "A/V SYNC" to 0 ms when "A/V SYNC" is set to between 10 ms or 200 ms (page 45).

Connected components

There is no sound or only a very low-level sound no matter which component is selected.

- Check that this system and components are connected correctly and securely.
- Check that both this system and the selected component are turned on.

There is no sound from the selected component.

- Check that the component is connected correctly to the audio input jacks for that component.
- Check that the cords are fully inserted into the jacks on both the component and this system.
- Check that the component is selected correctly.

 If you resume playback of a disc when volume is maximum, there may be no sound.
 In this case, turn down the volume, turn off the system and turn on again.

Sound is interrupted or there is noise.

• Check the output audio formats supported by this system on page 62.

There is no picture or an unclear picture appears on the TV screen.

- Check that the TV is selected correctly.
- Set the TV to the appropriate input mode.
- Move your audio components away from the TV.
- If a video signal other than those supported by the system is input, the image may be distorted.

The source image input to the HDMI jack on the subwoofer is not output from the TV.

- Check the HDMI connection.
- Depending on the playback component, you may need to set up the component. Refer to the operating instructions of each component.
- Use a High Speed HDMI cable. If you use a Standard HDMI cable, 1080p images may not be displayed properly.

Control for HDMI

The Control for HDMI function does not work.

- Check the HDMI connection (page 12).
- Make sure "CTRL: HDMI" is set to "ON" in AMP menu.
- Make sure the connected component is compatible with the Control for HDMI function.
- Check the Control for HDMI settings on the connected component. Refer to the operating instructions supplied with the connected component.
- If you change the HDMI connection, or connect/disconnect the AC power cord (mains lead), or if there is a power failure, repeat the procedures of "Preparing for the "BRAVIA" Sync" (page 29).

 The system may not work correctly if you select a component that is not compatible with the Control for HDMI function on the TV side.

No sound is output from the system and the TV's speaker.

- Check the volume of the system and the TV.
- Select the input of the system correctly.

The sound is output from both the system and the TV.

 If the Control for HDMI function is set to off, or the selected component is not compatible with the Control for HDMI function, turn off the sound of the system or the TV.

The System Power Off function does not work.

 Change the setting of the TV to turn connected components off automatically when you turn off the TV. For details, refer to the operating instructions of the TV.

An image does not appear on the TV.

 Check whether HDMI IN and HDMI OUT are connected correctly.

A message stating that the output method has changed from the system speaker to the TV speaker appears on the TV screen.

 When the DMPORT function is selected, the System Audio Control function does not work (page 32).

When the system is in standby mode, there is no image or sound on the TV.

- When the system is in standby mode, image and sound are output from the HDMI component selected the last time you turned off the system. If you are enjoying other component, play the component and perform the One-Touch Play operation, or turn on the system to select the HDMI component you want to enjoy.
- Make sure "POWER SAVE" is set to "OFF" in the AMP menu if you connect components not compatible with the "BRAVIA" Sync to the system (page 34).

The S-AIR function

S-AIR connection is not established (sound transmission is not established), e.g., the indicator of the S-AIR sub unit turns off, flashes, or turns red.

- If you use another S-AIR main unit, place it more than 8 m (about 25 feet) away from the S-AIR main unit you are using.
- Confirm that the S-AIR IDs of the subwoofer and the S-AIR sub unit are the same (page 51).
- Another S-AIR sub unit is paired to the S-AIR main unit. Pair the desired S-AIR sub unit with the S-AIR main unit (page 54).
- Place so that the S-AIR main unit and S-AIR sub unit are separated from other wireless devices.
- · Avoid using any other wireless devices.
- The S-AIR sub unit is turned off. Make sure the AC power cord (mains lead) is connected and turn on the S-AIR sub unit.

No sound is heard from the S-AIR sub unit.

- If you use another S-AIR main unit, place it more than 8 m (about 25 feet) away from the S-AIR main unit you are using.
- Confirm that the S-AIR IDs of the subwoofer and the S-AIR sub unit are the same (page 51).
- Check the pairing setting (page 54).
- Place the S-AIR main unit and S-AIR sub unit closer together.
- If you are using any equipment that generates electromagnetic energy such as a microwave oven near an S-AIR product, turn off the equipment and try using the S-AIR product again after waiting for a short time.
- Place so that the S-AIR main unit and S-AIR sub unit are separated from other wireless devices.
- Avoid using any other wireless devices.
- Change the "RF CHANGE" setting (page 56).
- Change the S-AIR ID settings of the S-AIR main unit and S-AIR sub unit.
- Turn off the system and S-AIR sub unit, then turn on them

- Sources with copyright protection may not be playable on S-AIR receivers.
- Wireless surround amplifiers cannot be used with this system. The system does not support S-AIR devices other than S-AIR receivers.

There is noise or the sound skips.

- If you use another S-AIR main unit, place it more than 8 m (about 25 feet) away from the S-AIR main unit you are using.
- Place the S-AIR main unit and S-AIR sub unit closer together.
- If you are using any equipment that generates electromagnetic energy such as a microwave oven near an S-AIR product, turn off the equipment and try using the S-AIR product again after waiting for a short time.
- Place so that the S-AIR main unit and S-AIR sub unit are separated from other wireless devices.
- Avoid using any other wireless devices.
- Change the "RF CHANGE" setting (page 56).
- Change the S-AIR ID settings of the S-AIR main unit and S-AIR sub unit.

Other

The remote does not function.

- Point the remote at the remote sensor 📳 in the front panel display.
- Remove any obstacles in the path between the remote and the front panel display.
- Replace both batteries in the remote with new ones, if they are weak.
- Make sure you select the correct input on the remote.

The volume turns down when the output method changes from the TV speaker to the system speaker.

 The Volume Limit function is working. For details, refer to "Using the Volume Limit function" (page 32).

If the system still does not operate properly after performing the above measures, reset the system as follows:

Use buttons on the system for this operation.

1 Press I/ to turn on the power.

2 Press INPUT SELECTOR, VOLUME – and I/(1) at the same time.

"COLD RESET" appears and the system is reset. AMP menu, sound field, etc., return to the default settings.

Specifications

Formats supported by this system

Digital input formats supported by this system are as follows.

Format	Supported/Not supported
Dolby Digital	0
DTS	0
Linear PCM (2ch)*	0
Linear PCM (5.1ch,	0
7.1ch)* (Only on	
HDMI)	
Dolby Digital Plus	×
Dolby True HD	×
DTS-HD	×

^{*} Linear PCM accepts sampling frequencies of no more than 48 kHz.

Amplifier section

Power output (rated)

L/R: 80 W + 80 W

(at 4 ohms, 1 kHz, 1 %

THD)

Power output (reference) RMS output power

L/R: 100 W/ch (per channel at 4

ohms, 1 kHz, 10 % THD) 200 W (at 2 ohms, 100 Hz,

10 % THD)

Inputs (Analog)

Subwoofer:

TV Sensitivity: 550 mV

Impedance: 33 kohms

Inputs (Digital)

TV, DIGITAL 1 Optical DIGITAL 2 Coaxial

HDMI section

Connector HDMITM Connecter Video inputs/outputs BD, DVD, SAT/CATV:

640 × 480p@60 Hz

720 × 480p@59.94/60 Hz 1280 × 720p@59.94/60 Hz

1280 × /20p@59.94/60 H 1920 × 1080i@59.94/

60 Hz

1920 × 1080p@59.94/

60 Hz

720 × 576p@50 Hz 1280 × 720p@50 Hz 1920 × 1080i@50 Hz 1920 × 1080p@50 Hz 1920 × 1080p@24 Hz

BD, DVD, SAT/CATV: Linear PCM 7.1ch/

Dolby Digital/DTS

Tuner section

Audio inputs

System PLL quartz-locked digital

synthesizer

FM tuner section

Tuning range 87.5 – 108.0 MHz (50 kHz step)

Antenna (aerial) FM wire antenna (aerial) Antenna (aerial) terminals 75 ohms, unbalanced

Intermediate frequency 10.7 MHz

AM tuner section

Antenna (aerial)

Tuning range 531 kHz – 1,602 kHz (with

the interval set at 9 kHz) AM loop antenna (aerial)

Intermediate frequency 450 kHz

Speakers (SS-FS3)

Speaker system Full range, Bass reflex Speaker unit 65 mm cone type

Rated impedance 4 ohms

Dimensions (approx.) $102 \text{ mm} \times 163 \text{ mm} \times 77$

mm (with foot) (w/h/d)

Mass (approx.) 0.55 kg

Subwoofer (SA-WFS3)

Speaker system Subwoofer, Bass reflex

Speaker unit 130 mm cone type

Rated impedance 2 ohms

Dimensions (approx.) $212 \text{ mm} \times 374 \text{ mm} \times 364$

mm (w/h/d)

Mass (approx.) 8.9 kg

General

Power requirements 220 – 240 V AC, 50/60 Hz

Power consumption On: 95 W

Standby mode: 0.3 W (when "CTRL: HDMI"

and "S-AIR STBY" are set

to "OFF.")

Power output

(DIGITAL MEDIA PORT) DC OUT: 5 V, 700 mA

Design and specifications are subject to change without notice.

• Standby power consumption 0.3 W.

• Halogenated flame retardants are not used in the certain printed wiring boards.

• Over 85 % power efficiency of amplifier block is achieved with the full digital amplifier, S-Master.

Glossary

Dolby Digital

This movie theater sound format is more advanced than Dolby Surround Pro Logic. In this format, the surround speakers output stereo sound with an expanded frequency range, and a subwoofer channel for deep bass is independently provided. This format is also called "5.1" with the subwoofer channel designed as the 0.1 channel (since it functions only when a deep bass effect is needed). All six channels in this format are recorded separately for superior channel separation. Furthermore, since all the signals are processed digitally, less signal degradation occurs.

Dolby Pro Logic II

Dolby Pro Logic II creates five full-bandwidth output channels from 2 channel sources. This is done using an advanced, high-purity matrix surround decoder that extracts the spatial properties of the original recording without adding any new sounds or tonal colorations.

DTS

Digital audio compression technology developed by Digital Theater Systems, Inc. This technology conforms to 5.1-channel surround. This format comprises of stereo rear channel and there is discrete subwoofer channel in this format. DTS provides the same 5.1 discrete channels of high quality digital audio. The good channel separation is realized due to the all channel data being recorded discretely and processed in digitally.

HDMI

HDMI (High-Definition Multimedia Interface) is an interface that supports both video and audio on a single digital connection, allowing you to enjoy high quality digital picture and sound. The HDMI specification supports HDCP (Highbandwidth Digital Contents Protection), a copy protection technology that incorporates coding technology for digital video signals.

PCM (Pulse Code Modulation)

A method of converting analog audio to digital audio for easy enjoyment of digital sound.

S-AIR (Sony Audio Interactive Radio frequency)

Recent times have seen the rapid spread of DVD media, Digital Broadcasting, and other high-quality media.

To ensure that the subtle nuances of these high-quality media are transmitted with no deterioration, Sony has developed a technology called "S-AIR" for the radio transmission of digital audio signals with no compression, and has incorporated this technology into the EZW-RT10/EZW-RT10A/EZW-T100/EZW-T100A. This technology transfers digital audio signals with no compression using the 2.4 GHz band range of ISM band (Industrial, Scientific, and Medical band), also used by wireless LANs and Bluetooth applications.

S-Force PRO Front Surround

Sony's long-term involvement in surround technology (and the vast amounts of acoustic data accumulated as a result) has led to the development of all-new processing method and advanced DSP to handle this task effectively, which we call S-Force PRO Front Surround. Compared with previous front surround technologies, S-Force PRO Front Surround reproduces a more convincing sense of distance and space, resulting in a true surround sound experience without the need for rear speakers.

S-Master

S-Master is an all-digital amplifier technology developed by Sony, which effectively minimizes the occurrence of sound fragmentation and jitter, delivering superb dialog clarity and faithful reproduction of the original sound. The compact amplifier section supports a higher power efficiency and improved thermal performance.

x.v.Colour (x.v.Color)

"x.v.Colour (x.v.Color)" enables the more faithful reproduction of various colors such as the brilliant colors of flowers and the turquoise blue of the southern ocean.

"x.v.Color" is a promotion name given to the products that have the capability to realize a wide

color space based on the xvYCC specifications and is a trademark of Sony Corporation. xvYCC is an international standard of the technical specifications of the extended-gamut color space for video signals. The color gamut of xvYCC is wider than the one of sRGB that is used with the current television system.

Index

A	P		
A/V SYNC 45	PAIRING 54		
AMP menu 43	"PlayStation 3"		
AUDIO 45, 46	connecting 12		
AUDIO DRC 44	POWER SAVE 34		
	Presetting radio stations 35		
В			
BASS 45	R		
Blu-ray Disc player (recorder)	Radio 36		
connecting 13	Radio Stations 35		
	RDS 38		
C	Remote		
CTRL: HDMI 31	assignments 42		
CIRL. HDWI 31	before use 6		
D	operating 23, 39		
	RF CHANGE 56		
DIGITAL MEDIA PORT			
connecting 19	S		
DIMMER 47	S-AIR ID 51		
DISPLAY 37, 47	S-AIR MODE 52		
DUAL MONO 46	S-AIR STBY 53		
DVD player (recorder)	Satellite tuner		
connecting 13, 14	connecting 12, 14		
_	SET HDMI 31, 32, 34		
F	SET S-AIR 51, 52, 53, 54, 56		
FM Mode 36	Sleep timer 48		
	Sound field 27		
H	SW LEVEL 44		
HDMI	SYSTEM 47, 48		
connecting 12	,		
	Т		
1	TONE 45		
Installing 7	TREBLE 45		
Installing 7	TREBLE 43		
ı	V		
LEVEL 44	•		
LEVEL 44	VOL LIMIT 32		
NI .			
N			

Naming preset stations 37



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